

PROCESS FOR PRODUCTION AND SELECTION OF NEW CATALYSTS USING AN
EVOLUTIONARY PROCESS

ABSTRACT

This invention relates to a process wherein improved production of catalysts is made possible according to an evolutionary method. The principles of mutation and crossing of catalyst components and determination of performance parameters of the mixed catalysts used here are carried out in 5 to 50 catalyst generations in such way that two mixed catalysts are selected from the same generation in crossing, and at least one selected component is exchanged between the two, and in mutation of a selected mixed catalyst, a selected component from a catalyst mixture is introduced into the catalyst or, if already present in it, it is removed from the catalyst. The selection is made in all cases by using random generators with a uniform distribution. The same procedure is used for the gas flow composition, the temperature and the space velocity as the other performance parameters.

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